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# (12) UK Patent Application (19) GB (11) 2 240 024<sup>(13)</sup>A

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GB 2132064 A GB 0515598 A US 4006713 A

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(54) Pet house

(57) A pet house includes a front wall (1) having an entrance (16) formed in a centre portion, a rear wall (2), two side walls (3), two roof sheets (4), a floor (5) and a tray (7). One or more protrusions (14, 24, 31) are formed on a top surface of the front wall (1) and the rear wall (2) and on each side surface of the vertical side edges of the side walls (3). One or more dents (23) are formed in the front wall (1), the rear wall (2) and the roof sheets (4) for receiving the protrusions (14, 24, 31). The walls, roof and floor slot together and are held in place by the protrusions.

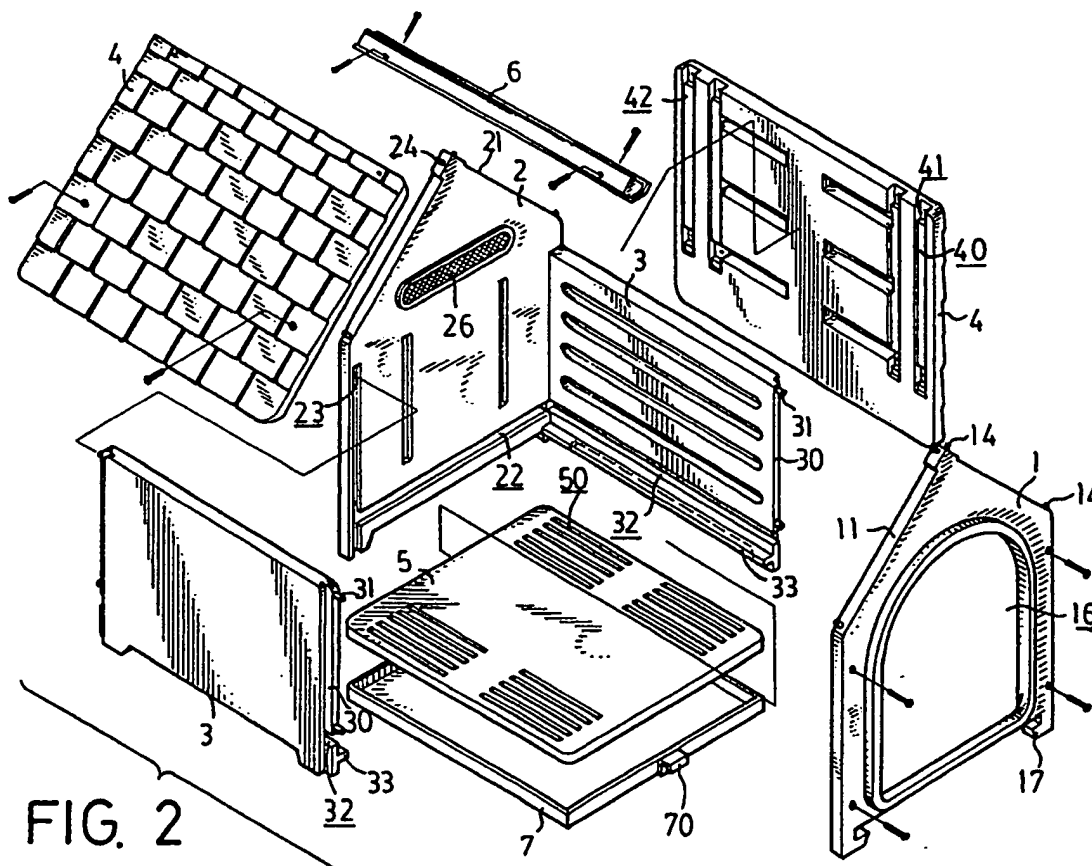


FIG. 2

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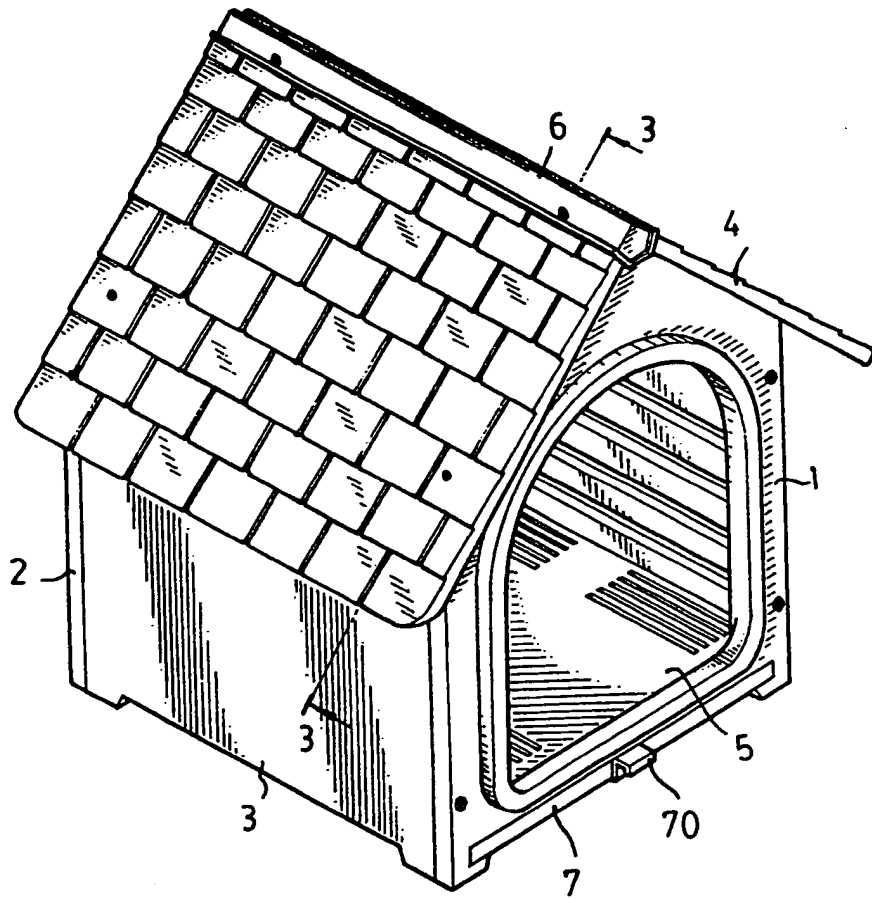


FIG. 1

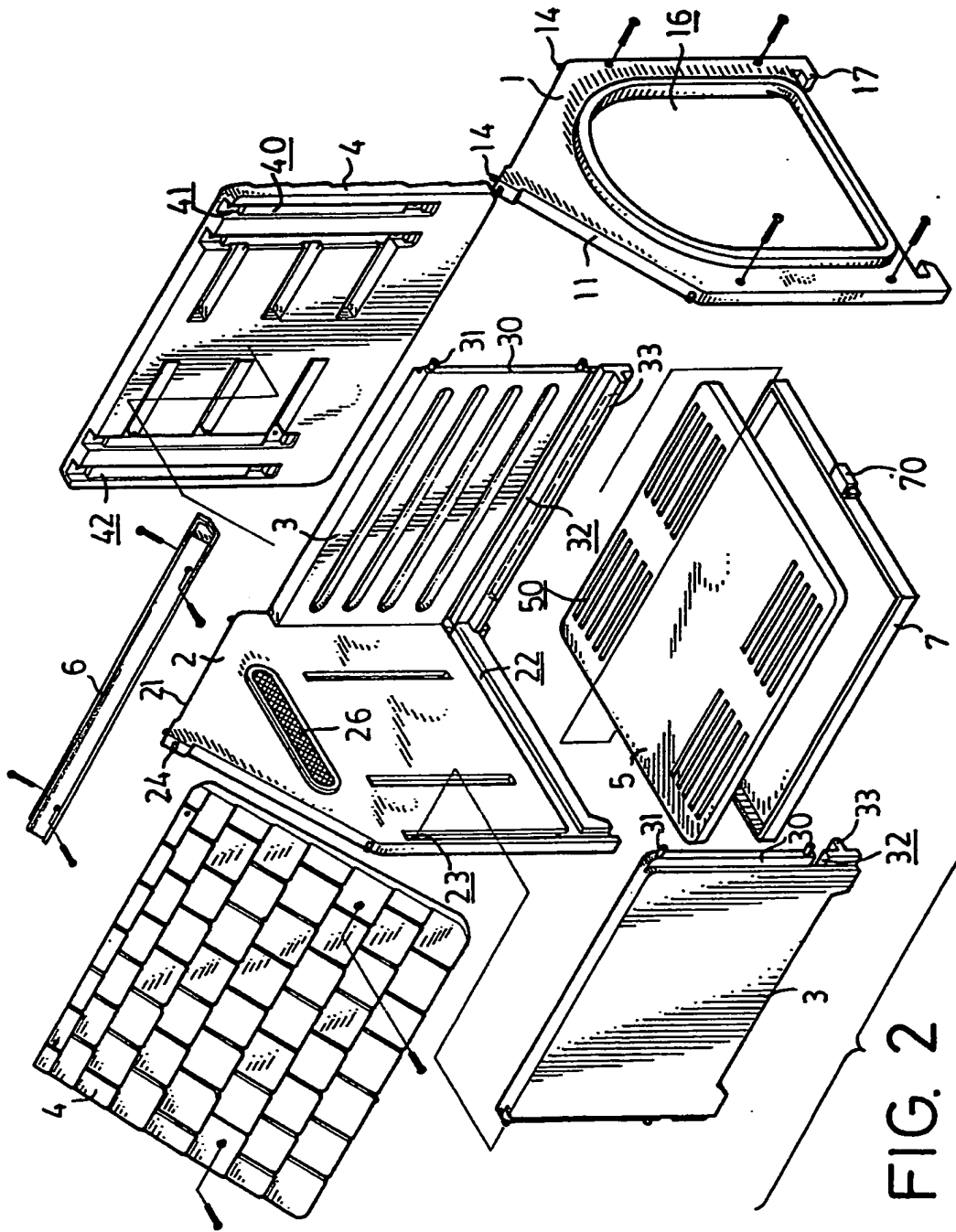


FIG. 2

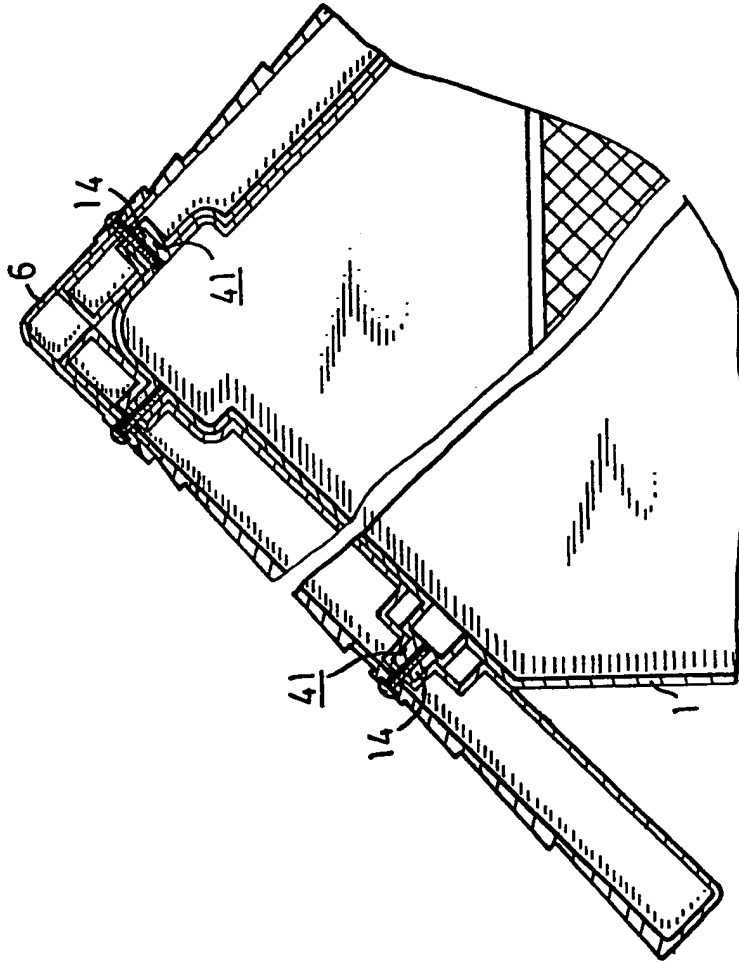


FIG. 3

TITLE: PET HOUSE COMBINATION

The present invention relates to a pet house, and more particularly to a pet house combination.

05 More and more people raise pets nowadays. The pet houses are generally made of wood which has a tendency to suffer from corrosion. Another type of pet house is made of grate bars. It can not provide a warm home for pets during winter.

10 The present invention has arisen to mitigate and/or obviate the afore-described disadvantages of the conventional pet house.

The primary objective of the present invention is to provide a pet house combination which can be easily assembled.

15 Another objective of the present invention is to provide a pet house combination which can be separated into pieces and can be packed with the smallest volume so that transportation fee thereof is decreased.

20 In accordance with one aspect of the invention, there is provided a pet house which includes a front wall having an entrance formed in a center portion, a rear wall, two side walls, two roof sheets, a floor and a tray. An H-shaped slot is formed in an inner surface of the rear wall. A lateral groove is formed in a lower  
25 end of each side wall and is aligned with a lateral portion of the slot. A peripheral edge of the floor is received in the lateral portion of the slot and the

lateral grooves of the side walls. Each vertical side edge of the side walls is received in a vertical portion of the slot. One or more protrusions are formed on a top surface of the front wall and the rear wall and on each side surface of the vertical side edges of the side walls. One or more dents are formed in the slot of the rear wall and the recesses of the roof sheets for receiving the protrusions. Each part has a hollow interior.

Further objectives and advantages of the present invention will become apparent from a careful reading of the detailed description provided hereinbelow, with appropriate reference to the accompanying drawings.

FIG. 1 is a perspective view of a pet house in accordance with the present invention;

FIG. 2 is an exploded view of the pet house; and

FIG. 3 is a partial cross sectional view illustrating an engagement between a roof and a side wall of the pet house.

Referring to the drawings and initially to FIG. 1, the pet house combination in accordance with the present invention comprises generally a front wall 1, a rear wall 2, two side walls 3, two roof sheets 4, a floor 5 and a removable tray 7.

Referring next to FIGS. 2 and 3, the front wall 1 is substantially a pentagon having an entrance 16 formed therein and having two inclined surfaces 11 formed on a top end thereof. Two protrusions 14, which

are best shown in FIG. 3, are preferably formed on two ends of each inclined surface 11. Two inward flanges 17 are provided on the bottom of the front wall 1 and extend inwards. The rear wall 2 has an outer shape similar to that of the front wall 1. Two inclined surfaces 21 are formed on the top end of the rear wall 2. Two protrusions 14 are provided on both ends of each inclined surface 21. An H-shaped slot 22 and an air hole 26 are formed in an inner surface of the rear wall 2. The front wall 1 has an H-shaped slot (not shown) formed in an inner surface thereof and facing the H-shaped slot 22 of the rear wall 2.

The side walls 3 are substantially rectangular with a vertical rib 30 formed on each side thereof. Two protrusions 31 are formed on the outer surface of each vertical rib 30. The vertical ribs 30 of the side walls 3 are received in the vertical portions of the respective H-shaped slots 22 of the front wall 1 and the rear wall 2. A plurality of dents 23 are formed in the H-shaped slots 22 of the front wall 1 and the rear wall 2 for receiving the protrusions 31 of the side walls 3. The protrusions 31 are fixed in positions by screws, for example. A lateral groove 32 is formed in the inner surface of each side wall 3 and is aligned with the lateral portions of the H-shaped slots 22 of the front wall 1 and the rear wall 2. A lateral flange 33 is formed on the inner surface of each side wall 3



and is located below the lateral groove 32.

Two recesses 40, 42 are formed in each side of the low r surface of each roof sheet 4. Two dents 41 are formed in the two ends of each recess 40, 42. Each  
05 inclined surface 11 of the front wall 1 is receivable in either recess 40 of the two recesses 40 located on one side of the roof sheet 4, and each inclined surface 21 of the rear wall 2 is receivable in either recess 42 of the two recesses 42 located on the other side of the  
10 roof sheet 4. The protrusions 14, 24 of the front wall 1 and the rear wall 2 are received in the respective dents 41 of the roof sheets 4 and are fixed in positions by such as screws.

A plurality of openings 50 are formed in the floor  
15 5. The peripheral edge of the floor 5 is received in the lateral portions of the slots 22 of the front wall 1 and the rear wall 2 and in the lateral grooves 32 of the side walls 3. The tray 7 which is provided for collecting discharge of the pets is removably inserted  
20 into the space below the floor 5 and is supported by the lateral flanges 33 of the side walls 3 and the inward flanges 17 of the front wall 1. The discharge of the pets on the floor 5 drops down to the tray 7 from the openings 50. A roof sheath 6 which is substantially  
25 V-shaped is provided on top of the roof sheets 4 and is fixed in position by the screws.

As is best shown in FIG. 3, the front wall 1 and the roof sheets 4 are preferably made of plastic

materials or the like and have a hollow interior. Similarly, the rear wall 2, the sides walls 3 and the floor 5 are preferably made of plastic materials or the like, and each has a hollow interior. They are made by  
05 molding method, for example. Pressurized air is injected into the interior of the parts during molding processes so as to form the hollow interior.

Accordingly, the present invention has the following advantages:

10 (a) The pet house combination can be separated into pieces and can be packed with the smallest volume so that transportation fee thereof is decreased.

(b) The pet house combination can be easily assembled in a fast speed.

15 (c) The parts of the pet house combination have hollow interiors so that they have light weights, which is also good for transportation purposes.

(d) The pet house combination provides a warm home for pets during winter.

20 Although this invention has been described with a certain degree of particularity, it is to be understood that the present disclosure has been made by way of example only and that numerous changes in the detailed construction and the combination and arrangement of  
25 parts may be resorted to without departing from the spirit and scope of the invention as hereinafter claimed.

I CLAIM:

1. A pet house comprising a front wall having an entrance formed in a center portion thereof, a rear wall, two side walls, two roof sheets, a floor and a tray; said front wall and said rear wall each having  
05 two inclined surfaces formed on a top end thereof; characterized in that a substantially H-shaped slot is formed in a respective inner surface of said front wall and said rear wall; a lateral groove is formed in a lower end of each said side wall and is aligned with a  
10 lateral portion of each said slot, a peripheral edge of said floor is received in said lateral portions of said slots and said lateral grooves of said side walls; each vertical side edge of said side walls is received in a respective vertical portion of said slots; a recess is  
15 formed in each side of an inner surface of each said roof sheet for receiving said inclined surfaces of said front wall and said rear wall; a plurality of protrusions are formed on said inclined surfaces of said front wall, said rear wall and on each side  
20 surface of said vertical side edges of said side walls; a plurality of dents are formed in said slots of said front wall and said rear wall and said recesses of said roof sheets for receiving said protrusions; and said tray is removably inserted into a space below said  
25 floor.

2. A pet house according to claim 1, wherein a vertical rib is formed in each lateral side of said side walls and is received in a respective vertical portion of said slots of said front wall and said rear wall; an air hole is formed in said rear wall; a plurality of openings are formed in said floor; a lateral flange is formed on said inner surface of each said side wall and is located below said lateral groove, an inward flange is provided on each end of a bottom end of said front wall and extends inward, and said tray is removably supported on said lateral flanges of said side walls and on said inward flanges of said front wall; and a roof sheath is provided on top of said roof sheets.

3. A pet house according to claim 1, wherein said front wall, said rear wall, said side walls, said floor and said roof sheets have a hollow interior.

4. A pet house substantially as herein described with reference to the accompanying drawings.